

WEDNESDAY SEPTEMBER 12

11:45-12:45
12:45

REGISTRATION- LUNCH IN SUNSET RESTAURANT
MOVE TO SANTA CRUZ ROOM

12:50
SESSION 1
1:00 – 2:30

INTRODUCTION
The Exciting First Session
CHAIRD BY SUNIEL KOLIWAD & ANDREAS STAHL

Esther Paulo Wang Lab, UCSF CVRI – Defective mitochondria in brown adipocytes promote metabolic benefits
Thomas Hennings Ku Lab, UCSF Diabetes Center – *In vivo deletion of beta cell Drp1 impairs insulin secretion without affecting islet oxygen consumption*
William Krause Ingraham Lab, UCSF – *Coordinating female metabolism and reproduction: estradiol drives Mc4r expression in the ventromedial hypothalamus*
Martin Vadearcos-Contreras UCSF Diabetes Center – *The role of hypothalamic microglia in the regulation of energy and glucose homeostasis*

2:30 - 2:45

BREAK

SESSION 2
2:45 - 4:15

New Pathways to Therapy¹
CHAIRD BY MARK HUISING & AUDREY PARENT

Aeid Igbaria Papa Lab, UCSF – *Targeting T1D with new class of NLRP3 inflammasome inhibitors*
Jordan Bisanz Turnbaugh Lab, UCSF – *The effects of very low-calorie diet on gut microbiome composition and function*
Chester Chamberlain German Lab, UCSF Diabetes Center – *Pathways to synthetic lethal combinations and new drug therapies for pancreatic islet cell tumors*
Jessica Cortez Marson Lab, UCSF Diabetes Center – *CRISPR screen in regulatory T cells identifies ubiquitin-modifying enzyme Usp22 as key regulator of Foxp3 expression*
Isha Jain Sandler Fellow, Physiology, UCSF – *Turning the oxygen dial as a therapy: Hypoxia as a treatment for mitochondrial dysfunction*

4:15 – 4:30

BREAK

SESSION 3
4:30 – 6:00

Physiological Determinants in Diabetes & Obesity
CHAIRD BY MATTHIAS HEBROK & MARTIN MYERS

Carlos Henrique Kajimura Lab, UCSF Diabetes Center – *Phospholipid transfer protein (PLTP): the new batokine in control lipid and glucose homeostasis*
Marta Vuckovic Napoli Lab, UC Berkeley – *Retinol metabolism in brown adipose contributes to optimal lipid homeostasis during fasting and feeding*
Kevin Corbit Weiss Lab, UCSF – *Adipocyte JAK2 mediates hepatic insulin sensitivity and hepatocellular carcinoma*
Jessica Huang Huising Lab, UC Davis – *Role of somatostatin in beta cell functional maturity*
Lisa Beutler Knight Lab, UCSF – *Understanding the nutritional regulation of feeding circuits*

6:00 – 7:00

DINNER IN SUNSET RESTAURANT

7:00 – 8:00

Keynote Address¹ Introduction by Andreas Stahl
Anders Näär UC Berkeley

8:00 – 9:30

Poster Session & Cocktails¹ New Brighton & La Silva Rooms
Chaird by Frederic Van Gool

9:30 - 11:00

Social Hour & Games Santa Cruz Room

THURSDAY SEPTEMBER 13

8:00 – 9:00

BREAKFAST – SUNSET RESTAURANT

SESSION 4
9:00 -10:30

Developmental Biology and More
CHAIRD BY ALLISON XU & WALLY WANG

Annalise Vonderembse Merrill Lab, UC Davis – *A cold look at DDT: How developmental exposure to the pesticide may have obesogenic roots in the nervous system*
Ronan Russell Hebrok Lab, UCSF Diabetes Center – *Pancreatic islet-cell development in humans - a primary role for MAFB?*
Truc Nguyen Olzmann Lab, UC Berkeley – *Mechanisms and functions of lipid droplet-mitochondria tethering*
Daniel Wong Sneddon Lab, UCSF Diabetes Center – *A novel endocrine progenitor population as revealed by single-cell RNA- sequencing*
Ajit Shah Bhushan Lab, UCSF Diabetes Center – *Targeted elimination of senescent beta cells prevents Type 1 Diabetes*

10:35 -11:00

GROUP PHOTO

SESSION 5
11:00 -12:30

Harnessing Human Genetics in Metabolic Diseases
CHAIRD BY MIKE GERMAN & NADAV AHITUV

Yuanyuan Qin Krauss Lab, CHORI – *TMEM55B regulates LDLR lysosomal decay through PI(4,5)P2*
Jeremy Warshauer Anderson Lab – *A novel mendelian model of autoimmune diabetes*
Fanny Comblain Vaisse Lab, UCSF Diabetes Center – *Monoallelic expression as a contributor to phenotypic variability in obesity*
Bryan Gonzalez Leibel Lab, Columbia University – *HN1A deficiency (MODY3) impairs β -cell granule maturation and function*
Dimitre Simeonov Marson Lab, UCSF Diabetes Center – *Decoding IL2RA regulatory circuits in autoimmune diabetes*

12:30 - 1:30

LUNCH – SUNSET RESTAURANT

SESSION 6

1:30 – 3:00

New Pathways to Therapy²

CHAIRED BY RUDOLF LEIBEL & ANDERS NAAR

Casey Ward Tang Lab, UCSF – *Reversal of diabetes and preservation of pancreatic islet grafts in the extrahepatic space with novel parathyroid gland co-transplantation*

Gabriel Eades UCSF Diabetes Center – *Targeting recalcitrant tumor persister cells*

Leonardo Ferreira Tang Lab, UCSF – *Cellules-san-frontières: engineered regulatory T cell therapies for type 1 diabetes*

Ching Fang Chang Stahl Lab, UC Berkeley – *CoQ deficiency in brown adipose tissues leads to mitochondrial unfolded protein responses and thermogenic dysfunction*

Audrey Parent UCSF Diabetes Center – *Immunoengineering of stem cell-derived insulin-producing cells for cell therapy and disease modeling*

3:00 – 6:30

AFTERNOON AT SANTA CRUZ BEACH BOARDWALK

6:30 – 7:30

DINNER IN SUNSET RESTAURANT

7:30 – 8:30

Keynote Address² Introduction by Mathias Hebrok

Jens C. Brüning, Max Planck Institute

8:30 – 10:00

Poster Session & Cocktails² New Brighton & La Silva Rooms
Chaired by Frederic Van Gool

10:00 – 1:00

Retreat Party Seascape Room

FRIDAY SEPTEMBER 14

8:00

BREAKFAST IN SUNSET RESTAURANT

SESSION 7

9:00 – 10:30

Saving the Best for Last

CHAIRED BY BRÜNING & JULIE SNEDDON

Ashley Frakes Dillan Lab, UC Berkeley – *Glia regulate ER stress resistance and longevity*

Eirini Vagena Xu Lab, UCSF Diabetes Center – *Role of ASB4 in regulation of energy balance and glucose homeostasis*

Ritwik Datta Atabai Lab, UCSF – *Mfge8 promotes insulin resistance through $\alpha\beta 5$ integrin*

Kotdaji Ha Delling Lab, UCSF – *Electrical properties of primary cilia signaling: Implication into islet function*

Fred Van Gool UCSF Diabetes Center – *A Foxp3 Mutation drives Th2 effector function in regulatory T cells*

10:30 – 12:00

STUDENT & FACULTY NETWORKING IN FOCUS GROUPS

Locations will be assigned prior

Venue 1 - Beta Cell development and function: Hebrok, Huisling, Bhushan, Ku, Sneddon

Venue 2 - Adipose tissue and Metabolism: Koliwad, Raffai, Napoli, Stahl, Wang, Feldman

Venue 3 - Central regulation of energy Homeostasis: Leibel, Myers, Brüning, Xu, Ryan, Vaisse

Venue 4 - Immunology and type I Diabetes: Marson, Tang, Van Gool, Parent

Venue 5 - Genomics and Technology: Ahituv, McManus, Krauss, Smith, Naar, Gerencser

12:00

LUNCH IN SUNSET RESTAURANT

